

**Piezoelectric Film Transducer****Abstract of the Disclosure**

5           A method and apparatus transduces between mechanical and electrical  
signals within a middle ear to improve hearing. An electromechanical transducer  
film, preferably polyvinylidene fluoride (PVDF), is carried by a mount secured to  
the middle ear. The film is constrained by the mount, or by the mount and an  
auditory element. The invention includes substantially straight, bow-shaped, hoop-  
10 shaped, and bi-element transducer film embodiments. The film transduces between  
mechanical vibrations of an auditory element, such as the malleus or stapes, and  
electrical signals for use with an electronics unit of a partial middle ear implantable  
(P-MEI) or total middle ear implantable (T-MEI) hearing aid.